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PATENT, TRADEMARK, COPYRIGHT AND RELATED INTELLECTUAL PROPERTY LAW

January 24, 2006

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Re: U.S. Patent Application for
"REACTOR COMBUSTION CONTROL METHOD AND REATOR""
Serial No.: 10/508,929
Filed: October 19, 2004
Patent No.: 6,951,458
Issue Date: October 4, 2005
Our Docket: 37032

Sir:

In proofreading the above-referenced patent, a typographical error was noted. It is not believed that this error requires a Certificate of Correction. However, it is respectfully requested that this letter be placed in the file for this case.

The following errors were noted:

Column 6, line 57, please delete "if" and insert therefor - - 1f - -.

Respectfully submitted,

Jeffrey J. Sopko, Reg. No. 27676

JJS:vln
Enclosure

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date indicated below.

Jeffrey J. Sopko
Name of Attorney for Applicant(s)

January 23, 2006
Date

Signature of Attorney

Best Modes for Embodying the Invention

The present invention will now be described in detail with reference to the accompanying drawings. Fig. 1 is a schematic view showing the configuration of an embodiment according to the present invention adapted to a reaction furnace for improvement testing. Referring first to Fig. 1, reference numeral 1 designates a furnace body having a furnace wall which surrounds a combustion chamber 2 therein. The furnace body 1 includes a bottom wall (furnace floor) 1a and a top wall (furnace ceiling) 1b which constitute a pair of wall portions, side walls 1c and 1d which constitute a pair of wall portions positioned in a width direction (a front-to-back direction as Fig. 1 is seen on the paper), and side walls 1e and 1f which constitute a pair of wall portions in a lateral direction (a right-to-left direction as Fig. 1 is seen on the paper).

The bottom wall (furnace floor) 1a of the furnace body 1 is supported by a support structure (not shown). The top wall (furnace ceiling) 1b of the furnace body 1 is provided fixedly with four continuous combustion type regenerative burners 3, 4, 5, 6 which respectively constitute regenerative burners of a high temperature air combustion type. A plurality of reaction pipes 7 are so arranged as to penetrate the bottom wall 1a and top wall 1b of the furnace body 1.

The continuous combustion type regenerative burners 3, 4, 5, 6 used herein are provided at the furnace wall of the furnace body 1. The continuous combustion type regenerative burners 3, 4, 5, 6 are constituted by combining first burners 3a, 4a, 5a, 6a for burning a fuel in the combustion chamber 2 and partial combustion air supply apparatuses 3b, 4b, 5b, 6b for the first